

OPTIMUM IDLE SEEK IN DATA SERVO CONTROL OF MAGNETIC STORAGE

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Abstract

PURPOSE: To improve the throughput of an idle seek by performing the control to compensate a mechanical displacement during an idle seek operation of a magnetic storage.
CONSTITUTION: An offset detector 14 detects an offset amount α 20 of heads 2 and 18 looking from a head 17 and an offset amount β 21 of heads 3 and 19 looking from heads 1 and 17. A microcomputer 9 computes and stores the offset amount and the priority of a next idle seek operation is set based on these stored values. Thus, the idle seek operating time is reduced and the throughput is improved.

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